

In re: Nojima et al.
Serial No.: 10/705,365
Filed: November 10, 2003

In the Claims:

Please amend the claims as reflected in the following listing of claims. This listing of claims replaces all prior versions, and listings, of claims in the application.

1-7. (canceled)

8. (currently amended) A flue gas denitration catalyst obtained by preparing a mixture containing titanium dioxide and tungsten trioxide, and then ~~having supporting~~ vanadium pentoxide ~~supported~~ on the surface of an extruded catalyst body or on a powder of the prepared mixture using a vapor phase method, wherein the vanadium pentoxide has a crystallite size of less than 8 nm or less as measured by X-ray diffraction.

9. (original) A flue gas denitration catalyst of claim 8, which is obtained by further having the resulting powder supported on the surface of a formed product.

10. (original) A flue gas denitration catalyst of claim 8, wherein titanium dioxide and tungsten trioxide in the mixture exists in the form of a complex oxide thereof.

11. (currently amended) A flue gas denitration catalyst of claim 8, wherein the supported amounts of vanadium pentoxide range from 0.4 to 5 wt.% based on the weight of the surface layer of the catalyst which has a thickness of 200 μm from its surface and range from 0.1 to 0.9 wt.% based on the total weight of the catalyst.

12. (canceled)

13. (original) A flue gas denitration catalyst of claim 8, wherein the catalyst body has a honeycomb shape.

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14. (original) A flue gas denitration catalyst of claim 9, wherein the formed product has a honeycomb shape.

15. (original) A flue gas denitration catalyst of claim 8, wherein the mixture further contains silicon dioxide.

16. (original) A flue gas denitration catalyst of claim 15, wherein titanium dioxide, tungsten trioxide and silicon dioxide in the mixture exists in the form of a complex oxide thereof.

17. (original) A flue gas denitration catalyst of claim 9, wherein the formed product contains titanium dioxide, tungsten trioxide and vanadium pentoxide.

18. (currently amended) A flue gas denitration catalyst comprising titanium dioxide, tungsten trioxide and vanadium-pentaoxide pentoxide, wherein vanadium-pentaoxide pentoxide is supported on a carrier containing titanium dioxide and tungsten trioxide in the surface layer of the catalyst which has a thickness of 200 μm from its surface; wherein the supported amounts of vanadium pentoxide range from 0.4 to 5 wt.% based on the weight of the surface layer and range from 0.1 to 0.9 wt.% based on the total weight of the catalyst; and wherein vanadium pentoxide thus supported has a crystallite size of less than [[10]] 8 nm as measured by X-ray diffraction.